

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P320501

Luminaire Tested: **GLEON-SA7D-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7D-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38326 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

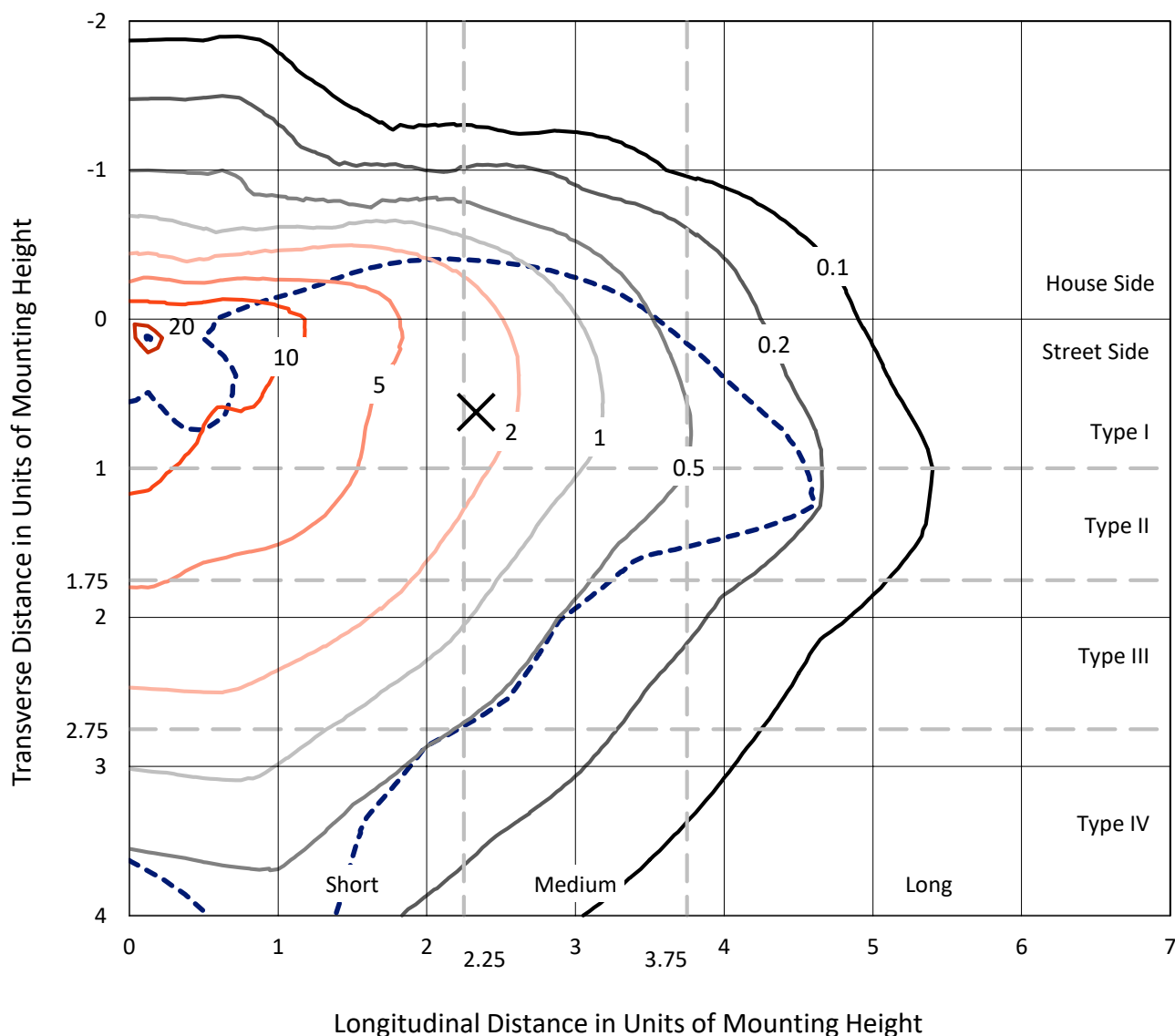
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320501
 CATALOG NUMBER: GLEON-SA7D-830-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

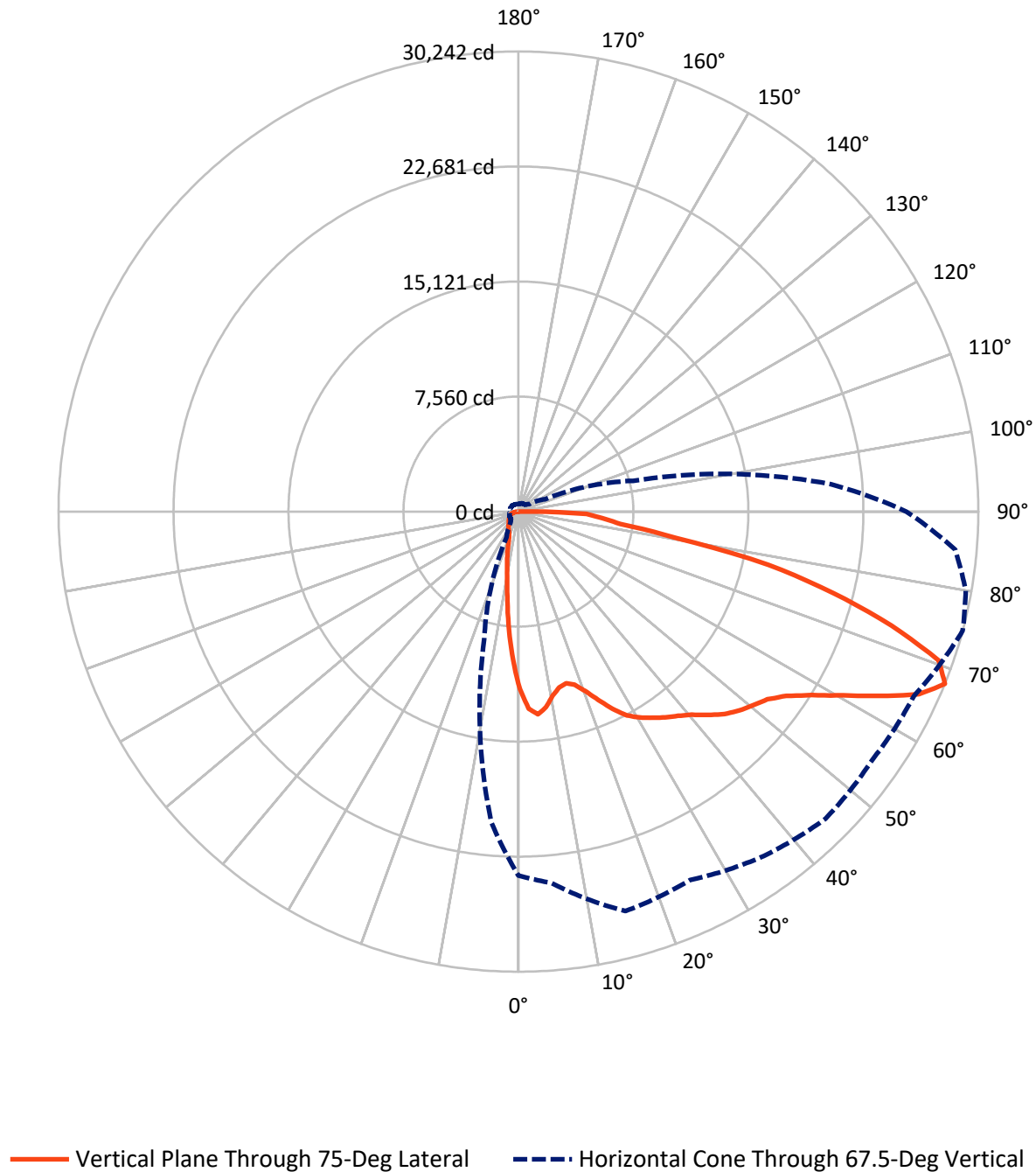
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P320501
CATALOG NUMBER: GLEON-SA7D-830-U-SLL

Luminous Intensity Polar Plot



REPORT NUMBER: P320501
 CATALOG NUMBER: GLEON-SA7D-830-U-SLL

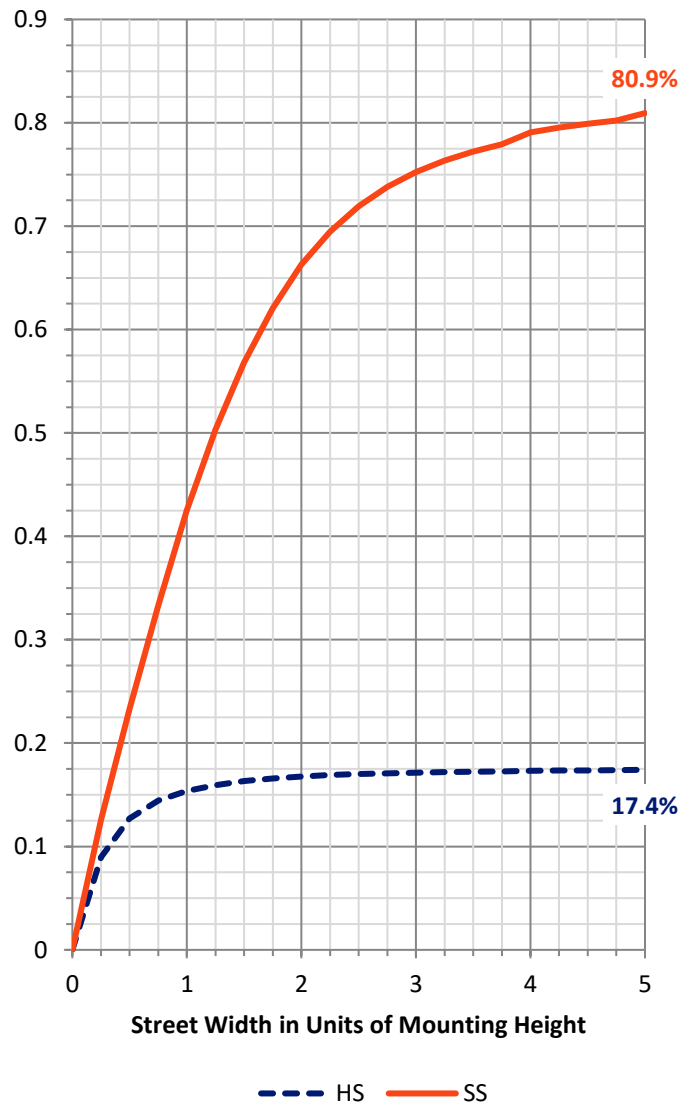
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6750.1	0.0	6750.1
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	31575.9	0.0	31575.9
	% Fixture	82.4	0.0	82.4
Total	Lumens	38326.0	0.0	38326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	901.1	2.4
10°-20°	1872.0	4.9
20°-30°	2662.4	6.9
30°-40°	3836.5	10.0
40°-50°	5406.8	14.1
50°-60°	7516.4	19.6
60°-70°	9089.5	23.7
70°-80°	5587.2	14.6
80°-90°	1453.9	3.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	38326.0	100.0
0°-180°	38326.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320501

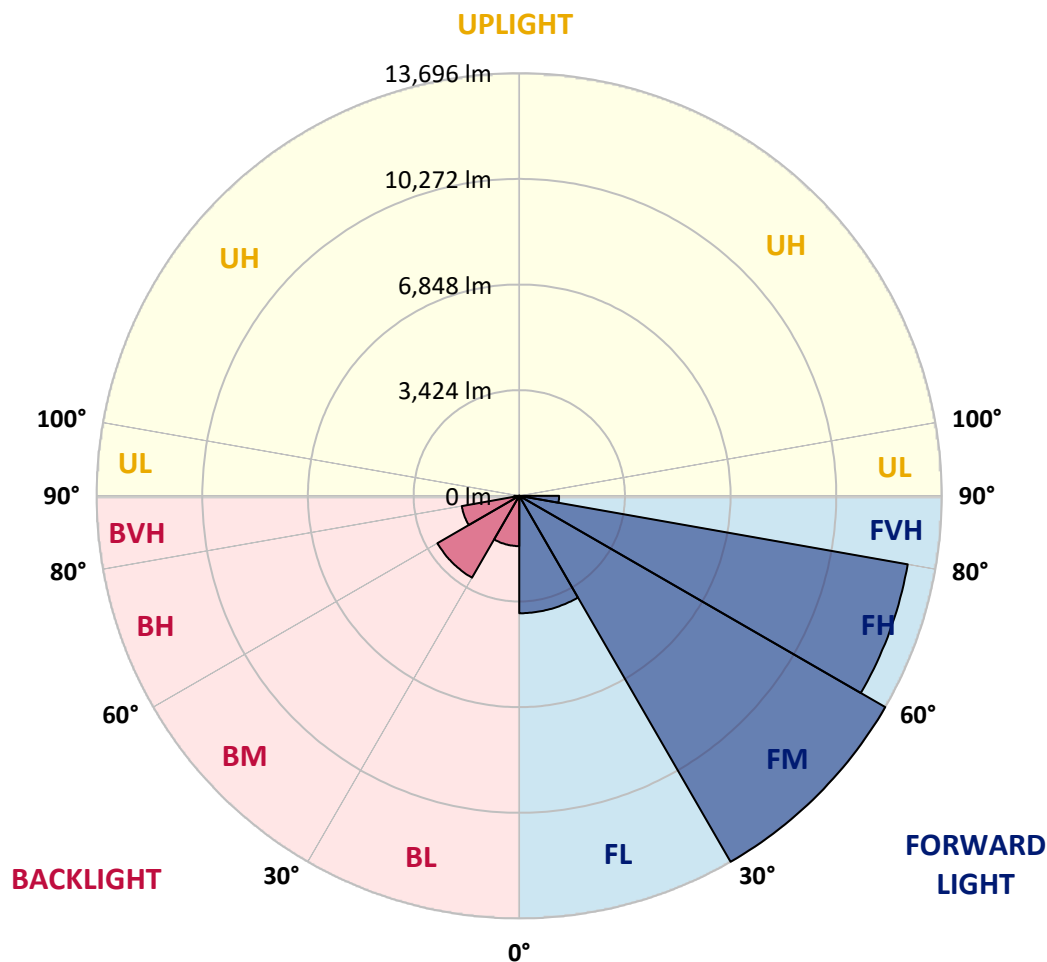
CATALOG NUMBER: GLEON-SA7D-830-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3805.4	9.9			
FM	(30°-60°)	13695.7	35.7			
FH	(60°-80°)	12784.3	33.4			G5
FVH	(80°-90°)	1290.5	3.4			G5
BL	(0°-30°)	1630.2	4.3	B3/2500		
BM	(30°-60°)	3064.1	8.0	B3/5000		
BH	(60°-80°)	1892.5	4.9	B3/2500		G3/2500
BVH	(80°-90°)	163.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



REPORT NUMBER: P320501

CATALOG NUMBER: GLEON-SA7D-830-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2
2.5°	12445.4	12609.4	12722.8	12834.6	12922.0	13007.8	13133.4	13259.1	13283.6	13306.6	13257.5
5°	12371.9	12771.8	13112.0	13450.6	13764.7	14078.9	14267.3	14455.8	14494.1	14532.4	14414.4
7.5°	11579.7	12169.6	12759.5	13349.5	13890.4	14431.3	14760.7	15088.6	15163.7	15237.3	15044.2
10°	10678.7	11365.1	12089.9	12814.7	13527.2	14239.7	14716.3	15192.8	15287.8	15382.9	15142.3
12.5°	9993.7	10743.0	11516.8	12290.7	13043.0	13793.8	14287.3	14780.7	14898.6	15016.6	14841.9
15°	9730.2	10551.5	11279.3	12007.2	12663.0	13317.3	13721.8	14124.8	14173.9	14221.4	14193.8
17.5°	9993.7	10899.3	11558.2	12215.6	12572.6	12928.1	13090.5	13251.4	13305.0	13357.1	13427.6
20°	10764.5	11742.1	12206.4	12669.1	12653.8	12637.0	12558.8	12479.1	12465.3	12451.5	12650.7
22.5°	11864.7	13000.1	13185.5	13369.4	12938.8	12508.2	12246.2	11982.7	11930.6	11876.9	12088.4
25°	13156.4	14365.4	14331.7	14296.4	13476.7	12655.3	12155.8	11656.3	11598.0	11539.8	11720.6
27.5°	14561.5	15716.9	15496.2	15275.6	14161.6	13047.6	12322.8	11598.0	11539.8	11481.6	11641.0
30°	15660.2	16708.3	16354.3	16000.4	14739.3	13478.2	12617.0	11755.9	11660.9	11564.3	11760.5
32.5°	16590.3	17482.1	17007.1	16532.1	15208.2	13884.3	12952.6	12021.0	11872.3	11723.7	11985.7
35°	17558.7	18254.4	17586.3	16916.7	15626.5	14334.8	13349.5	12362.7	12180.3	11998.0	12358.1
37.5°	18648.2	19225.9	18266.7	17305.9	16096.9	14887.9	13944.0	12998.6	12811.6	12624.7	13084.4
40°	19799.0	20280.1	19000.6	17721.2	16611.8	15502.4	14766.9	14029.8	13852.1	13672.8	14230.6
42.5°	20805.7	21156.6	19684.0	18211.5	17232.3	16251.7	15733.8	15214.3	15212.8	15209.7	15775.1
45°	21564.2	21869.1	20254.1	18637.5	17837.6	17036.2	16766.5	16496.8	16712.9	16929.0	17440.7
47.5°	22194.0	22400.8	20732.1	19061.9	18530.2	17998.5	18038.3	18078.2	18518.0	18957.7	19287.2
50°	22914.2	22747.1	21165.8	19582.9	19419.0	19255.0	19613.6	19970.6	20476.2	20980.4	21204.1
52.5°	23694.1	23251.3	21754.2	20255.6	20439.5	20623.3	21352.7	22082.1	22592.4	23102.6	23186.9
55°	25096.2	24417.3	22836.0	21253.1	21607.1	21959.5	23030.6	24100.2	24498.6	24897.0	24927.6
57.5°	26676.0	26073.8	24351.5	22629.1	23009.2	23389.2	24625.7	25860.8	26291.4	26720.4	26660.6
60°	27284.3	27313.4	25790.3	24265.6	24648.7	25031.8	26236.2	27440.6	27935.5	28428.9	28297.2
62.5°	26671.4	27390.0	26576.4	25761.2	26109.0	26455.3	27635.2	28815.1	29322.3	29829.5	29599.6
65°	25459.3	26171.8	26536.5	26901.2	27016.1	27131.1	28232.8	29333.0	29722.2	30109.9	29993.4
67.5°	23917.8	24494.0	25839.3	27183.2	26951.8	26720.4	27236.8	27753.2	28153.1	28553.0	28487.2
70°	22132.7	22819.1	24613.5	26407.8	25270.8	24132.3	23919.3	23706.4	24138.5	24569.0	24302.4
72.5°	18931.7	19967.5	21881.4	23793.7	21699.0	19604.4	18876.5	18148.7	18695.7	19242.7	18818.3
75°	14299.5	15674.0	17788.6	19901.6	17402.4	14903.2	13931.8	12960.3	13430.7	13901.1	13610.0
77.5°	9944.7	11668.5	13750.9	15833.4	13292.8	10750.7	10029.0	9305.7	9446.7	9586.1	9537.1
80°	6780.5	7914.4	9367.0	10818.1	9126.4	7434.8	7491.5	7546.6	7480.7	7413.3	7511.4
82.5°	4252.2	5050.5	6172.1	7292.3	6394.3	5496.4	6011.2	6526.1	6273.3	6018.9	6113.9
85°	2395.0	2882.3	3979.4	5075.0	4730.2	4383.9	4685.8	4986.1	4593.9	4201.6	4374.7
87.5°	456.6	760.0	2201.9	3642.3	3306.7	2971.1	2581.9	2192.7	1673.3	1153.8	1685.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320501
 CATALOG NUMBER: GLEON-SA7D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320501

CATALOG NUMBER: GLEON-SA7D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2
2.5°	13208.5	13182.5	13156.4	13062.9	12967.9	12827.0	12710.5	12508.2	12397.9	12230.9	12063.9
5°	14294.9	14129.4	13963.9	13678.9	13392.4	13073.7	12707.4	12301.4	11994.9	11596.5	11198.1
7.5°	14851.1	14465.0	14077.3	13530.3	12981.7	12488.3	11909.1	11369.7	10910.0	10392.1	9874.2
10°	14901.7	14322.5	13741.7	13030.8	12318.2	11719.1	11052.5	10453.4	9901.8	9307.2	8711.2
12.5°	14665.7	14049.7	13432.2	12649.2	11864.7	11184.3	10467.2	9796.1	9184.7	8530.4	7874.5
15°	14166.2	13674.3	13180.9	12446.9	11713.0	11026.5	10330.8	9535.6	8844.5	8174.9	7503.7
17.5°	13496.6	13263.7	13029.2	12499.0	11967.3	11372.8	10698.6	9765.4	8956.3	8228.5	7500.7
20°	12848.4	12934.2	13018.5	12807.0	12595.6	12119.0	11530.6	10482.5	9449.8	8498.2	7545.1
22.5°	12298.3	12710.5	13121.2	13285.1	13447.5	13161.0	12701.3	11489.3	10122.4	8879.7	7637.0
25°	11899.9	12583.3	13266.7	13812.2	14356.2	14229.0	13875.1	12712.0	11014.2	9429.8	7843.9
27.5°	11800.3	12638.5	13476.7	14322.5	15166.8	15284.8	15186.7	14000.7	12077.7	10113.2	8147.3
30°	11956.6	12805.5	13652.9	14682.6	15710.8	16181.2	16313.0	15074.9	13292.8	10910.0	8525.8
32.5°	12247.7	13079.8	13911.8	15033.5	16153.6	16864.6	17284.4	16057.1	14140.1	11510.7	8879.7
35°	12718.2	13496.6	14275.0	15442.6	16610.2	17529.6	18295.8	17071.5	14892.5	11930.6	8967.1
37.5°	13542.5	14212.2	14881.8	15960.5	17037.7	18229.9	19380.6	18188.5	15706.2	12335.1	8962.5
40°	14788.3	15261.8	15733.8	16645.5	17555.7	19055.8	20609.6	19434.3	16605.6	12773.3	8941.0
42.5°	16340.5	16584.2	16826.3	17548.0	18269.7	19918.5	21725.1	20652.5	17463.7	13180.9	8898.1
45°	17951.0	18015.4	18079.7	18534.8	18988.4	20601.9	22485.1	21567.3	18213.0	13534.9	8855.2
47.5°	19615.1	19394.4	19173.8	19354.6	19535.4	21125.9	23027.5	22261.4	18965.4	13927.2	8887.4
50°	21427.8	20813.4	20198.9	20103.9	20008.9	21650.0	23666.5	23144.0	19869.5	14498.7	9128.0
52.5°	23269.6	22256.8	21243.9	20868.5	20491.6	22275.2	24513.9	24242.7	21159.7	15384.4	9607.6
55°	24958.3	23669.6	22380.9	21875.2	21369.6	23231.3	25548.2	25856.2	22813.0	16516.8	10219.0
57.5°	26599.4	25139.1	23678.8	23209.9	22741.0	24636.5	26858.3	27304.2	24483.2	17603.2	10721.6
60°	28165.4	26720.4	25273.9	24898.5	24521.5	26383.3	28274.2	27949.3	25344.4	18111.9	10877.9
62.5°	29369.8	28220.5	27071.3	26873.6	26674.4	28150.1	29362.1	27698.0	24797.4	17610.8	10424.3
65°	29877.0	29222.7	28566.8	28752.2	28936.1	29486.2	29633.3	26962.5	23078.1	16207.2	9336.4
67.5°	28419.7	28553.0	28686.4	29464.8	30241.7	29863.2	28827.3	25512.9	20631.0	14218.3	7805.6
70°	24034.3	24834.1	25632.5	27474.3	29314.6	28474.9	26668.3	22911.1	17685.9	11927.5	6167.5
72.5°	18392.3	19291.8	20189.7	22923.3	25655.5	24881.6	22669.0	18818.3	14180.0	9524.8	4868.1
75°	13317.3	14333.2	15347.6	18363.2	21378.8	20304.6	16956.5	13473.6	10770.6	7270.8	3769.5
77.5°	9486.5	10166.9	10847.2	13826.0	16803.3	15053.4	11287.0	9066.7	7454.7	5053.6	2650.9
80°	7609.4	7401.1	7192.7	8852.1	10511.6	10220.5	7465.4	5822.8	5159.3	3386.4	1613.5
82.5°	6207.4	5698.7	5189.9	5971.4	6752.9	6710.0	5180.7	4272.1	3840.0	2353.6	867.3
85°	4546.4	4342.6	4138.8	4829.8	5520.9	4931.0	3509.0	2715.3	2994.1	1733.0	472.0
87.5°	2217.3	2532.9	2847.0	3662.2	4475.9	3360.4	1065.0	527.1	729.4	479.6	228.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320501
 CATALOG NUMBER: GLEON-SA7D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320501

CATALOG NUMBER: GLEON-SA7D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2
2.5°	11939.8	11814.1	11671.6	11529.1	11366.7	11202.7	11106.2	11008.1	10902.4	10796.7	10677.1
5°	10934.6	10671.0	10372.2	10073.4	9777.7	9481.9	9322.6	9163.2	8994.7	8824.6	8677.5
7.5°	9491.1	9106.5	8692.8	8277.5	7909.8	7540.5	7312.2	7082.3	6873.9	6664.0	6487.8
10°	8220.8	7730.5	7315.2	6898.5	6621.1	6343.8	6133.8	5923.9	5721.6	5517.8	5323.2
12.5°	7384.2	6893.9	6630.3	6366.7	6136.9	5907.1	5664.9	5421.3	5144.0	4865.1	4661.3
15°	7057.8	6611.9	6319.2	6025.0	5717.0	5407.5	5110.3	4813.0	4485.1	4157.2	3925.8
17.5°	6916.8	6333.0	5923.9	5513.2	5107.2	4701.1	4356.4	4011.6	3653.0	3294.5	3060.0
20°	6768.2	5991.3	5442.8	4892.7	4371.7	3850.7	3460.0	3069.2	2749.0	2428.7	2249.4
22.5°	6633.4	5628.2	4940.2	4250.6	3634.6	3018.6	2635.6	2251.0	2054.8	1858.7	1786.7
25°	6578.2	5311.0	4465.1	3619.3	2969.6	2318.4	2045.6	1772.9	1697.8	1621.2	1584.4
27.5°	6587.4	5027.5	4065.2	3101.4	2516.1	1930.7	1743.8	1556.8	1510.9	1463.4	1440.4
30°	6622.6	4719.5	3688.3	2657.0	2174.3	1691.7	1570.6	1448.0	1399.0	1350.0	1320.9
32.5°	6662.5	4443.7	3397.1	2349.0	1955.2	1559.9	1460.3	1359.2	1311.7	1264.2	1235.0
35°	6593.5	4218.4	3197.9	2177.4	1814.3	1449.6	1365.3	1279.5	1227.4	1175.3	1147.7
37.5°	6477.1	3991.7	3043.2	2093.1	1722.3	1350.0	1288.7	1225.8	1172.2	1117.1	1091.0
40°	6371.3	3800.1	2928.2	2054.8	1671.7	1287.1	1235.0	1182.9	1127.8	1071.1	1040.4
42.5°	6285.5	3671.4	2814.9	1958.3	1625.8	1291.7	1218.2	1143.1	1089.5	1035.8	1002.1
45°	6221.2	3587.1	2726.0	1864.8	1582.9	1300.9	1207.5	1114.0	1060.4	1005.2	965.4
47.5°	6215.0	3542.7	2663.2	1783.6	1501.7	1218.2	1179.9	1141.6	1063.4	983.7	937.8
50°	6299.3	3470.7	2589.6	1707.0	1423.5	1140.0	1192.1	1242.7	1109.4	974.5	916.3
52.5°	6475.5	3343.5	2473.1	1602.8	1328.5	1052.7	1133.9	1213.6	1098.7	982.2	907.1
55°	6688.5	3156.6	2296.9	1435.8	1202.9	968.4	1040.4	1110.9	1038.9	965.4	874.9
57.5°	6821.8	2920.6	2074.7	1228.9	1061.9	894.9	936.2	976.1	947.0	917.9	825.9
60°	6742.2	2606.5	1825.0	1042.0	937.8	833.6	825.9	816.7	859.6	902.5	796.8
62.5°	6353.0	2281.6	1604.3	927.0	848.9	769.2	752.4	734.0	804.5	873.4	761.6
65°	5695.6	2054.8	1464.9	874.9	787.6	700.3	681.9	663.5	684.9	706.4	654.3
67.5°	4860.5	1915.4	1385.2	855.0	749.3	642.0	620.6	599.1	594.5	589.9	571.6
70°	3999.3	1829.6	1333.1	836.6	707.9	577.7	557.8	537.8	531.7	524.0	510.3
72.5°	3343.5	1818.9	1327.0	835.1	674.2	513.3	494.9	476.5	468.9	459.7	449.0
75°	2738.2	1707.0	1259.6	812.1	628.2	442.8	426.0	409.1	403.0	395.3	386.1
77.5°	2031.8	1412.8	1058.8	704.9	537.8	370.8	354.0	335.6	334.0	331.0	323.3
80°	1317.8	1022.1	757.0	491.9	392.3	291.1	277.3	262.0	263.6	265.1	259.0
82.5°	732.4	596.1	462.8	329.4	268.2	206.9	200.7	193.1	197.7	200.7	193.1
85°	386.1	300.3	248.2	196.1	154.8	113.4	113.4	111.9	118.0	124.1	118.0
87.5°	167.0	105.7	90.4	73.6	41.4	7.7	9.2	9.2	12.3	15.3	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320501
 CATALOG NUMBER: GLEON-SA7D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320501

CATALOG NUMBER: GLEON-SA7D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2
2.5°	10556.1	10444.2	10330.8	10206.7	10229.7	10134.7	10039.7	9979.9	9920.2	9901.8	9883.4
5°	8530.4	8403.2	8274.5	8159.5	8259.1	8191.7	8124.3	8115.1	8104.4	8104.4	8102.9
7.5°	6311.6	6175.2	6037.3	5942.3	6040.4	6028.1	6015.8	6081.7	6147.6	6201.3	6253.4
10°	5128.6	4963.1	4796.1	4655.2	4630.6	4560.2	4488.1	4503.5	4517.2	4575.5	4633.7
12.5°	4457.5	4259.8	4062.2	3896.7	3821.6	3705.1	3587.1	3513.6	3440.0	3447.7	3453.8
15°	3692.9	3501.3	3308.3	3165.8	3118.2	3027.8	2937.4	2845.5	2752.0	2713.7	2673.9
17.5°	2824.0	2670.8	2516.1	2421.0	2421.0	2395.0	2368.9	2323.0	2275.5	2237.2	2197.3
20°	2070.1	1988.9	1906.2	1866.4	1878.6	1880.1	1880.1	1903.1	1926.1	1913.9	1901.6
22.5°	1713.1	1684.0	1654.9	1638.0	1644.2	1645.7	1647.2	1668.7	1688.6	1703.9	1717.7
25°	1546.1	1527.7	1509.3	1503.2	1517.0	1518.5	1518.5	1532.3	1546.1	1561.4	1576.7
27.5°	1415.9	1408.2	1400.5	1389.8	1403.6	1403.6	1402.1	1417.4	1431.2	1445.0	1457.2
30°	1291.7	1294.8	1296.3	1293.3	1302.5	1308.6	1313.2	1323.9	1333.1	1343.8	1354.6
32.5°	1204.4	1199.8	1195.2	1192.1	1212.1	1222.8	1233.5	1244.2	1253.4	1258.0	1262.6
35°	1120.1	1109.4	1098.7	1091.0	1109.4	1123.2	1137.0	1156.9	1175.3	1178.3	1181.4
37.5°	1063.4	1049.6	1035.8	1026.6	1034.3	1040.4	1046.6	1068.0	1089.5	1101.7	1112.5
40°	1009.8	996.0	982.2	974.5	979.1	980.7	982.2	992.9	1002.1	1025.1	1046.6
42.5°	966.9	950.0	933.2	924.0	927.0	930.1	931.6	930.1	928.6	950.0	971.5
45°	924.0	905.6	887.2	876.5	878.0	878.0	878.0	874.9	870.4	881.1	891.8
47.5°	890.3	868.8	847.4	836.6	833.6	830.5	827.4	825.9	822.8	830.5	836.6
50°	856.6	833.6	809.1	796.8	789.1	786.1	783.0	781.5	778.4	786.1	792.2
52.5°	830.5	802.9	775.3	755.4	747.8	743.2	738.6	740.1	740.1	743.2	744.7
55°	784.5	760.0	734.0	720.2	706.4	703.3	700.3	704.9	707.9	707.9	707.9
57.5°	734.0	711.0	686.5	677.3	665.0	665.0	663.5	669.6	674.2	677.3	680.3
60°	689.5	663.5	637.4	629.8	625.2	623.6	622.1	629.8	635.9	642.0	648.2
62.5°	648.2	620.6	593.0	583.8	582.3	583.8	583.8	591.5	597.6	603.7	609.9
65°	602.2	574.6	545.5	536.3	539.4	544.0	548.6	554.7	559.3	565.4	571.6
67.5°	551.6	528.6	504.1	494.9	496.5	502.6	508.7	513.3	516.4	522.5	528.6
70°	496.5	476.5	456.6	450.5	449.0	456.6	462.8	465.8	468.9	476.5	482.7
72.5°	436.7	419.9	403.0	398.4	399.9	404.5	409.1	413.7	416.8	424.4	430.6
75°	375.4	360.1	344.8	341.7	344.8	349.4	354.0	357.0	360.1	369.3	376.9
77.5°	315.7	298.8	280.4	278.9	283.5	288.1	291.1	295.7	300.3	312.6	324.8
80°	252.8	234.4	214.5	213.0	217.6	222.2	226.8	231.4	236.0	251.3	265.1
82.5°	185.4	164.0	142.5	139.4	154.8	159.4	164.0	171.6	177.7	191.5	205.3
85°	111.9	90.4	69.0	67.4	81.2	88.9	96.5	105.7	113.4	125.6	137.9
87.5°	12.3	6.1	0.0	0.0	1.5	7.7	13.8	21.5	29.1	41.4	52.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320501
 CATALOG NUMBER: GLEON-SA7D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320501

CATALOG NUMBER: GLEON-SA7D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2
2.5°	9816.0	9747.0	9817.5	9886.5	9915.6	9944.7	9869.6	9793.0	9912.5	10030.5	10061.1
5°	8041.6	7978.7	8026.2	8072.2	7969.5	7866.9	7856.1	7843.9	7932.8	8021.6	8035.4
7.5°	6233.4	6213.5	6258.0	6302.4	6172.1	6040.4	5976.0	5911.6	5933.1	5954.6	5951.5
10°	4647.5	4659.8	4714.9	4768.5	4667.4	4566.3	4521.8	4477.4	4526.4	4573.9	4618.4
12.5°	3481.4	3507.5	3565.7	3622.4	3581.0	3538.1	3542.7	3547.3	3604.0	3659.2	3708.2
15°	2704.5	2735.2	2776.5	2816.4	2817.9	2817.9	2857.8	2896.1	2891.5	2886.9	2920.6
17.5°	2238.7	2278.5	2283.1	2287.7	2289.3	2290.8	2287.7	2284.7	2261.7	2238.7	2264.8
20°	1916.9	1930.7	1943.0	1953.7	1939.9	1924.6	1886.3	1848.0	1832.6	1817.3	1841.8
22.5°	1743.8	1768.3	1756.0	1742.2	1714.7	1685.5	1656.4	1625.8	1624.2	1621.2	1635.0
25°	1598.2	1618.1	1596.7	1575.2	1555.3	1535.4	1515.5	1495.5	1494.0	1492.5	1498.6
27.5°	1477.1	1495.5	1475.6	1455.7	1438.8	1422.0	1406.7	1391.3	1388.3	1385.2	1386.7
30°	1372.9	1389.8	1372.9	1354.6	1342.3	1328.5	1317.8	1307.1	1305.5	1304.0	1304.0
32.5°	1279.5	1296.3	1284.1	1271.8	1261.1	1250.4	1242.7	1235.0	1227.4	1219.7	1202.9
35°	1198.3	1215.1	1207.5	1198.3	1186.0	1173.7	1160.0	1144.6	1124.7	1103.3	1094.1
37.5°	1129.3	1146.2	1138.5	1130.8	1114.0	1097.1	1072.6	1046.6	1040.4	1032.8	1031.2
40°	1074.1	1100.2	1084.9	1068.0	1042.0	1015.9	1003.7	991.4	988.3	985.3	982.2
42.5°	1012.9	1052.7	1025.1	997.5	973.0	948.5	945.4	942.4	940.8	939.3	939.3
45°	936.2	979.1	951.6	922.5	908.7	894.9	894.9	894.9	896.4	896.4	899.5
47.5°	864.2	890.3	876.5	862.7	855.0	847.4	848.9	850.4	855.0	858.1	865.8
50°	802.9	812.1	815.2	816.7	812.1	807.5	810.6	812.1	816.7	819.8	825.9
52.5°	758.5	772.3	772.3	770.8	770.8	770.8	773.8	776.9	781.5	786.1	792.2
55°	729.4	749.3	743.2	737.0	738.6	738.6	741.6	744.7	749.3	752.4	761.6
57.5°	701.8	723.2	717.1	711.0	711.0	711.0	712.5	714.1	718.7	721.7	727.8
60°	669.6	691.1	684.9	677.3	678.8	680.3	681.9	681.9	684.9	686.5	686.5
62.5°	631.3	652.8	646.6	639.0	643.6	646.6	646.6	646.6	649.7	651.2	646.6
65°	591.5	611.4	605.3	599.1	605.3	609.9	612.9	614.5	612.9	611.4	606.8
67.5°	548.6	568.5	562.4	554.7	562.4	568.5	574.6	579.2	574.6	570.0	563.9
70°	502.6	522.5	514.9	507.2	514.9	522.5	528.6	534.8	528.6	522.5	521.0
72.5°	453.6	476.5	467.4	458.2	467.4	476.5	479.6	482.7	478.1	473.5	470.4
75°	399.9	422.9	415.3	406.1	413.7	421.4	422.9	424.4	424.4	422.9	413.7
77.5°	343.2	361.6	357.0	352.4	357.0	361.6	361.6	361.6	363.2	363.2	350.9
80°	275.8	286.5	288.1	289.6	291.1	292.7	291.1	289.6	286.5	283.5	275.8
82.5°	205.3	205.3	217.6	228.3	228.3	226.8	225.2	222.2	216.1	208.4	191.5
85°	130.2	122.6	142.5	160.9	160.9	159.4	156.3	151.7	139.4	125.6	111.9
87.5°	44.4	36.8	56.7	76.6	78.1	78.1	75.1	72.0	59.8	46.0	35.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320501
 CATALOG NUMBER: GLEON-SA7D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320501

CATALOG NUMBER: GLEON-SA7D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2
2.5°	10107.1	10127.0	10145.4	10295.6	10444.2	10618.9	10793.6	10926.9	11058.7	11195.1	11331.4
5°	8082.9	8107.4	8132.0	8314.3	8495.1	8738.8	8982.4	9192.3	9402.2	9649.0	9895.7
7.5°	5991.3	6045.0	6097.1	6291.7	6484.7	6746.8	7007.2	7281.5	7554.3	7876.1	8197.9
10°	4705.7	4806.9	4906.5	5105.7	5304.9	5563.8	5821.2	6107.8	6394.3	6711.5	7027.2
12.5°	3809.3	3944.2	4077.5	4316.5	4555.6	4865.1	5173.1	5491.8	5809.0	6087.9	6366.7
15°	3009.5	3156.6	3302.1	3555.0	3807.8	4148.0	4486.6	4834.4	5180.7	5514.8	5848.8
17.5°	2347.5	2468.5	2588.1	2802.6	3015.6	3345.0	3674.5	4039.2	4403.9	4811.5	5217.5
20°	1893.9	1944.5	1995.1	2149.8	2303.1	2571.2	2837.8	3210.2	3582.5	4069.8	4557.1
22.5°	1659.5	1685.5	1710.1	1785.1	1858.7	2031.8	2203.5	2532.9	2860.8	3392.5	3922.7
25°	1518.5	1538.4	1558.4	1607.4	1656.4	1739.2	1821.9	2053.3	2284.7	2807.2	3328.2
27.5°	1391.3	1422.0	1451.1	1474.1	1495.5	1552.2	1607.4	1759.1	1910.8	2398.1	2883.8
30°	1299.4	1310.1	1320.9	1356.1	1389.8	1448.0	1506.3	1612.0	1717.7	2129.9	2540.6
32.5°	1192.1	1207.5	1222.8	1259.6	1296.3	1350.0	1403.6	1489.4	1573.7	1926.1	2277.0
35°	1095.6	1110.9	1126.2	1163.0	1198.3	1256.5	1313.2	1385.2	1455.7	1762.2	2068.6
37.5°	1035.8	1051.2	1066.5	1098.7	1129.3	1187.5	1244.2	1300.9	1356.1	1639.6	1923.0
40°	985.3	1000.6	1015.9	1046.6	1075.7	1132.4	1187.5	1235.0	1282.5	1547.6	1812.7
42.5°	940.8	957.7	974.5	1005.2	1034.3	1084.9	1135.4	1198.3	1259.6	1468.0	1674.8
45°	904.1	920.9	936.2	970.0	1003.7	1052.7	1101.7	1189.1	1276.4	1426.6	1576.7
47.5°	870.4	888.7	905.6	942.4	979.1	1040.4	1100.2	1173.7	1245.8	1394.4	1543.0
50°	838.2	859.6	881.1	925.5	968.4	1071.1	1172.2	1182.9	1192.1	1368.4	1543.0
52.5°	807.5	832.0	856.6	911.7	965.4	1084.9	1204.4	1166.1	1126.2	1319.3	1512.4
55°	776.9	798.3	818.3	885.7	953.1	1040.4	1127.8	1077.2	1025.1	1227.4	1429.6
57.5°	735.5	758.5	779.9	852.0	924.0	985.3	1045.0	999.1	951.6	1123.2	1293.3
60°	692.6	718.7	744.7	836.6	927.0	916.3	904.1	894.9	884.1	1006.7	1129.3
62.5°	654.3	681.9	709.5	829.0	948.5	874.9	801.4	809.1	815.2	905.6	996.0
65°	616.0	643.6	669.6	729.4	789.1	760.0	730.9	743.2	753.9	842.8	931.6
67.5°	573.1	597.6	620.6	640.5	660.4	663.5	666.6	678.8	691.1	796.8	901.0
70°	525.6	545.5	565.4	579.2	591.5	597.6	602.2	617.5	632.8	747.8	862.7
72.5°	472.0	488.8	504.1	516.4	528.6	533.2	536.3	551.6	567.0	689.5	812.1
75°	413.7	427.5	439.8	450.5	461.2	467.4	473.5	484.2	494.9	628.2	760.0
77.5°	349.4	363.2	375.4	384.6	392.3	398.4	403.0	416.8	430.6	542.4	652.8
80°	272.8	289.6	304.9	312.6	318.7	320.3	320.3	332.5	344.8	424.4	502.6
82.5°	193.1	211.5	228.3	234.4	240.6	240.6	240.6	254.4	268.2	321.8	373.9
85°	113.4	133.3	151.7	157.8	164.0	167.0	168.6	174.7	179.3	217.6	254.4
87.5°	35.2	52.1	67.4	70.5	73.6	79.7	85.8	87.3	87.3	113.4	139.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320501
 CATALOG NUMBER: GLEON-SA7D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320501

CATALOG NUMBER: GLEON-SA7D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2	11676.2
2.5°	11487.7	11644.0	11826.4	12007.2	12161.9	12316.7	12445.4
5°	10209.8	10523.9	10908.5	11291.6	11633.3	11975.0	12371.9
7.5°	8603.9	9010.0	9508.0	10006.0	10488.7	10969.8	11579.7
10°	7440.9	7853.1	8380.2	8905.8	9448.2	9989.1	10678.7
12.5°	6702.3	7036.4	7546.6	8056.9	8694.3	9330.2	9993.7
15°	6215.0	6579.7	7076.2	7572.7	8269.9	8967.1	9730.2
17.5°	5695.6	6172.1	6808.0	7444.0	8269.9	9094.3	9993.7
20°	5151.6	5744.6	6569.0	7393.4	8505.8	9616.8	10764.5
22.5°	4609.2	5295.7	6353.0	7408.7	8862.9	10315.5	11864.7
25°	4120.4	4912.6	6221.2	7528.2	9382.3	11234.9	13156.4
27.5°	3749.6	4613.8	6167.5	7719.8	10041.2	12362.7	14561.5
30°	3420.1	4299.7	6103.2	7906.7	10675.6	13442.9	15660.2
32.5°	3135.1	3993.2	5979.1	7963.4	11118.4	14273.5	16590.3
35°	2911.4	3754.2	5770.7	7787.2	11395.8	15004.4	17558.7
37.5°	2718.3	3513.6	5533.2	7552.8	11642.5	15732.2	18648.2
40°	2534.4	3256.2	5329.4	7401.1	11982.7	16564.3	19799.0
42.5°	2359.8	3044.7	5165.4	7286.1	12298.3	17309.0	20805.7
45°	2229.5	2882.3	5019.8	7155.9	12502.1	17848.3	21564.2
47.5°	2165.2	2785.7	4941.7	7096.1	12705.9	18314.2	22194.0
50°	2156.0	2768.9	5030.6	7292.3	13147.2	19000.6	22914.2
52.5°	2154.4	2796.5	5286.5	7776.5	13967.0	20156.0	23694.1
55°	2122.2	2813.3	5591.4	8367.9	15067.2	21764.9	25096.2
57.5°	2024.2	2755.1	5905.5	9054.4	16230.2	23404.5	26676.0
60°	1872.5	2614.1	6164.5	9713.3	17011.7	24308.6	27284.3
62.5°	1682.5	2367.4	6250.3	10131.6	16990.2	23848.9	26671.4
65°	1520.1	2108.5	5968.3	9826.7	16130.6	22433.0	25459.3
67.5°	1376.0	1849.5	5263.5	8675.9	14584.5	20491.6	23917.8
70°	1271.8	1679.4	4354.8	7030.2	12649.2	18266.7	22132.7
72.5°	1205.9	1598.2	3550.4	5501.0	10264.9	15027.4	18931.7
75°	1115.5	1471.0	2785.7	4098.9	7856.1	11613.4	14299.5
77.5°	947.0	1239.6	2099.3	2958.9	5764.5	8568.7	9944.7
80°	730.9	957.7	1443.4	1929.2	3967.1	6005.1	6780.5
82.5°	521.0	668.1	874.9	1081.8	2635.6	4187.8	4252.2
85°	321.8	389.2	501.1	612.9	1743.8	2874.6	2395.0
87.5°	173.2	206.9	265.1	321.8	557.8	793.7	456.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320501
 CATALOG NUMBER: GLEON-SA7D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

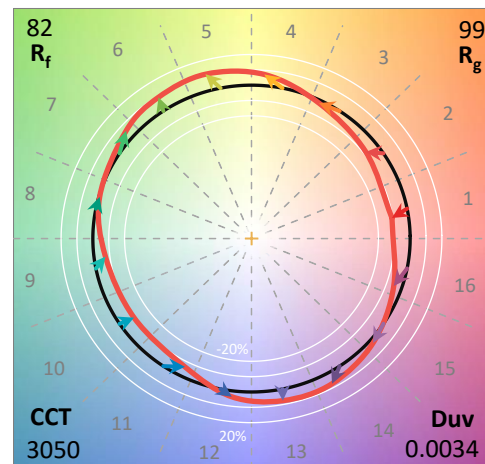
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

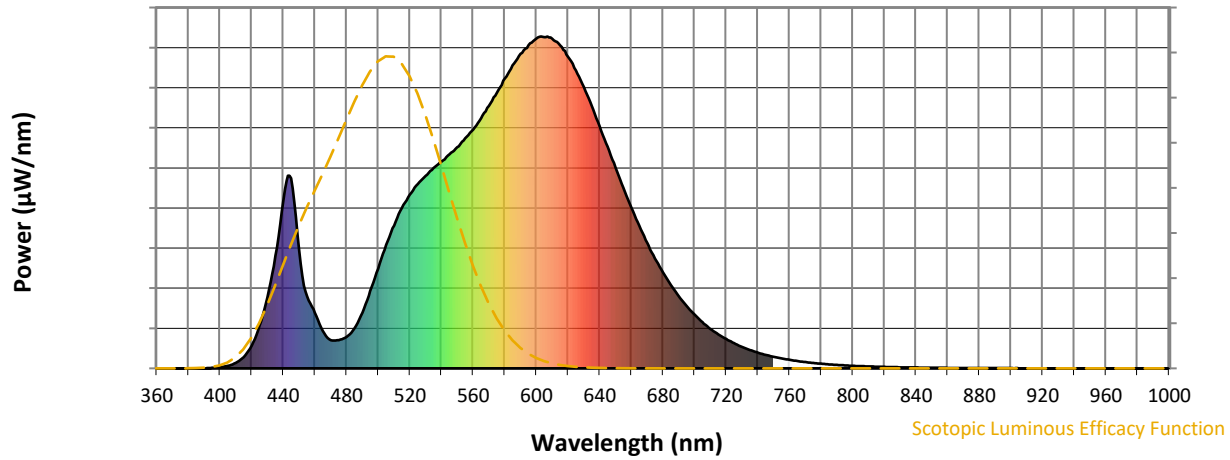


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.32

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

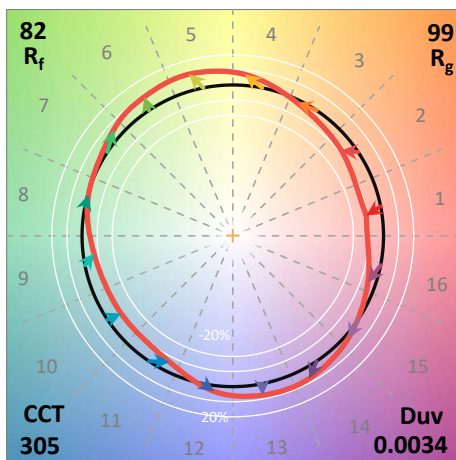
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_g = 7.1$

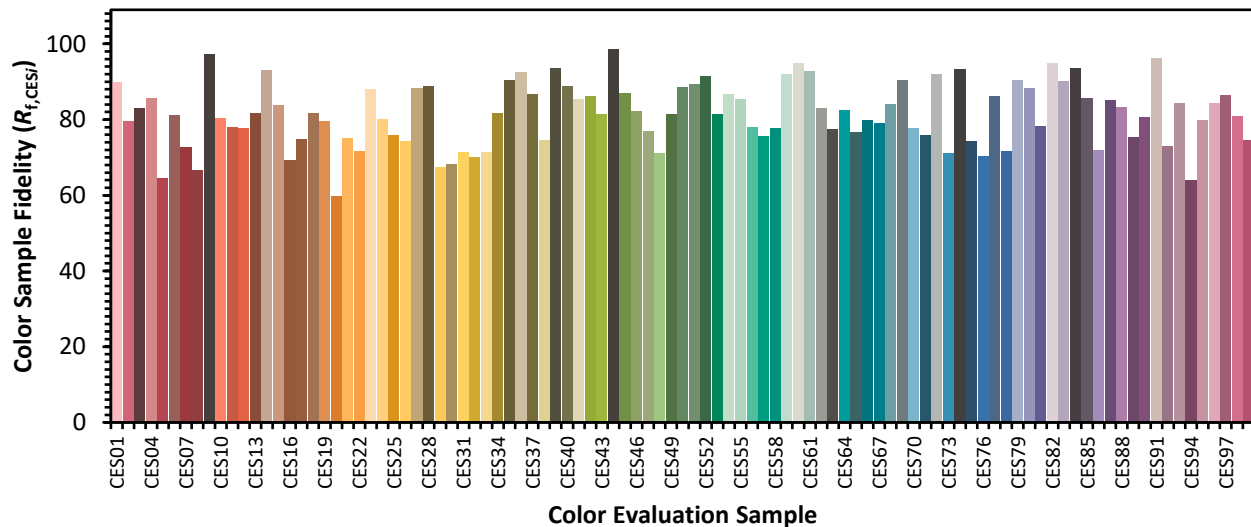


Color Vector Graphics

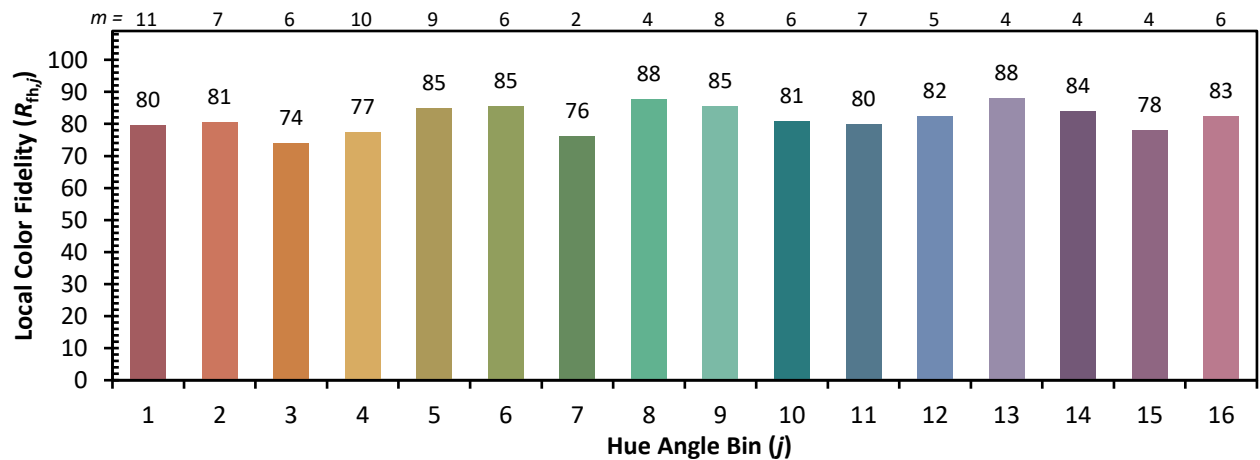


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)